This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

Search Results -

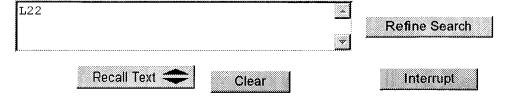
Terms	Documents
(extract\$3 or retriev\$3) same (first near feature\$2) same (digital near document\$2) same vector\$1	0

120.016

<u></u>
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:



Search History

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB=P	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=OR		
<u>L22</u>	(extract\$3 or retriev\$3) same (first near feature\$2) same (digital near document\$2) same vector\$1	0	<u>L22</u>
<u>L21</u>	(extract\$3 or retriev\$3) same (first near feature\$2) same (first near document\$2) same vector\$1	0	<u>L21</u>
<u>L20</u>	L18 and (feature near3 (first near vector\$1))	0	<u>L20</u>
<u>L19</u>	L18 and (first near vector\$1)	25	<u>L19</u>
<u>L18</u>	"digital document"	1618	<u>L18</u>
<u>L17</u>	L16 and (first near vector\$1)	0	<u>L17</u>
<u>L16</u>	L15 and vector\$1	. 25	<u>L16</u>
<u>L15</u>	L14 and ((extract\$3 or retriev\$3) same feature same document)	75	<u>L15</u>
<u>L14</u>	L13 and ((extract\$3 or retriev\$3) same document)	256	<u>L14</u>
<u>L13</u>	L11 and (text near3 image)	407	<u>L13</u>

<u>L12</u>	L11 and (text near5 image)	442	<u>L12</u>
<u>L11</u>	L10 and (digital near document)	567	<u>L11</u>
<u>L10</u>	text same image same document	10548	<u>L10</u>
<u>L9</u>	L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L9</u>
<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>
<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
<u>L4</u>	715/\$.ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

Search Results -

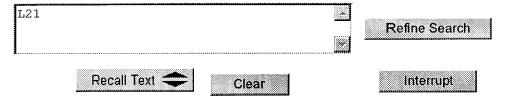
Terms	Documents
(extract\$3 or retriev\$3) same (first near feature\$2) same (first near document\$2) same	0
vector\$1	

14/2

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:



Search History

Set Name	Query	Hit	Set
side by		<u>Count</u>	Name result set
	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L21</u>	(extract\$3 or retriev\$3) same (first near feature\$2) same (first near document\$2) same vector\$1	0	<u>L21</u>
<u>L20</u>	L18 and (feature near3 (first near vector\$1))	0	<u>L20</u>
<u>L19</u>	L18 and (first near vector\$1)	25	<u>L19</u>
<u>L18</u>	"digital document"	1618	<u>L18</u>
<u>L17</u>	L16 and (first near vector\$1)	0	<u>L17</u>
<u>L16</u>	L15 and vector\$1	25	<u>L16</u>
<u>L15</u>	L14 and ((extract\$3 or retriev\$3) same feature same document)	75	<u>L15</u>
<u>L14</u>	L13 and ((extract\$3 or retriev\$3) same document)	256	<u>L14</u>
<u>L13</u>	L11 and (text near3 image)	407	<u>L13</u>
<u>L12</u>	L11 and (text near5 image)	442	<u>L12</u>
<u>L11</u>	L10 and (digital near document)	567	<u>L11</u>

<u>L10</u>	text same image same document	10548	<u>L10</u>
<u>L9</u>	L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L9</u>
<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>
<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
<u>L4</u>	715/\$.ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

Search Results -

Terms	Documents
L18 and (feature near3 (first near vector\$1))	0

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

Database: EPO Abstracts Database JPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L20	
	8

Refine Search





Interrupt

Search History

Set Name side by side	Query	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
DB=PC	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L20</u>	L18 and (feature near3 (first near vector\$1))	0	<u>L20</u>
<u>L19</u>	L18 and (first near vector\$1)	25	<u>L19</u>
<u>L18</u>	"digital document"	1618	<u>L18</u>
<u>L17</u>	L16 and (first near vector\$1)	0	<u>L17</u>
<u>L16</u>	L15 and vector\$1	25	<u>L16</u>
<u>L15</u>	L14 and ((extract\$3 or retriev\$3) same feature same document)	75	<u>L15</u>
<u>L14</u>	L13 and ((extract\$3 or retriev\$3) same document)	256	<u>L14</u>
<u>L13</u>	L11 and (text near3 image)	407	<u>L13</u>
<u>L12</u>	L11 and (text near5 image)	442	<u>L12</u>
<u>L11</u>	L10 and (digital near document)	567	<u>L11</u>
<u>L10</u>	text same image same document	10548	<u>L10</u>
<u>L9</u> .	L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L9</u>

<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>
<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
- <u>L4</u>	715/\$-ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

Search Results -

	Terms	Documents
L16 and	i (first near vectors	\$1) 0

4.19.04

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

L17		Refine Search
Recall Tex		Interrupt

Search History

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB=P	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L17</u>	L16 and (first near vector\$1)	0	<u>L17</u>
<u>L16</u>	L15 and vector\$1	25	<u>L16</u>
<u>L15</u>	L14 and ((extract\$3 or retriev\$3) same feature same document)	75	<u>L15</u>
<u>L14</u>	L13 and ((extract\$3 or retriev\$3) same document)	256	<u>L14</u>
<u>L13</u>	L11 and (text near3 image)	407	<u>L13</u>
<u>L12</u>	L11 and (text near5 image)	442	<u>L12</u>
<u>L11</u>	L10 and (digital near document)	567	<u>L11</u>
<u>L10</u>	text same image same document	10548	<u>L10</u>
<u>L9</u>	L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L9</u>
<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>

<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
<u>L4</u>	715/\$.ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

Search Results -

	Terms	Documents
L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))		0
Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins	
Search:	L9 Refin	e Search

Search:



Interrupt

Search History

Printable Copy Create Case DATE: Sunday, September 19, 2004

Set Name side by side	Query	<u>Hit</u> <u>Count</u>	Set Name result set
DB=P	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L9</u>	L1 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L9</u>
<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>
<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
<u>L4</u>	715/\$.ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

Search Results -

Terms	Documents
L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0

1000

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

L8		Refine Search
Recall Text 👄	Clear	Interrupt

Search History

DATE: Sunday, September 19, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> <u>Count</u>	Set Name result set
DB=Pe	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L8</u>	L7 and ((convert\$3 or translat\$3) same feature\$1 same (first near vector\$1))	0	<u>L8</u>
<u>L7</u>	(L3 or L4 or L5 or L6) and L2	39	<u>L7</u>
<u>L6</u>	382/\$.ccls.	43194	<u>L6</u>
<u>L5</u>	704/\$.ccls.	17555	<u>L5</u>
<u>L4</u>	715/\$.ccls.	8200	<u>L4</u>
<u>L3</u>	707/\$.ccls.	22448	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

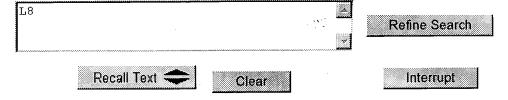
Search Results -

Terms	Documents	
L6 and L2	0	

4.19.0%

Search:

Database:



Search History

DATE: Sunday, September 19, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> <u>Count</u>	Set Name result set
DB=Pe	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L8</u>	L6 and L2	0	<u>L8</u>
<u>L7</u>	L5 and L2	0	<u>L7</u>
<u>L6</u>	715/513.ccls.	1649	<u>L6</u>
<u>L5</u>	709/203.ccls.	4647	<u>L5</u>
<u>L4</u>	L3 and L2	0	<u>L4</u>
<u>L3</u>	709/\$.ccls.	31082	<u>L3</u>
<u>L2</u>	L1 and (text\$1 near3 image\$1)	41	<u>L2</u>
<u>L1</u>	((extract\$3 or retriev\$3) near3 feature\$2) same document\$2 same vector\$1	170	<u>L1</u>

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Publications/Services Standards Conferences Membership Welcome 1 **United States Patent and Trademark Office** » Sea **Quick Links** FAQ Terms IEEE Peer Review Melcome to IEEE Aplane Your search matched 1 of 1071730 documents. O- Home A maximum of 500 results are displayed, 15 to a page, sorted by Relevance · What Can Descending order. | Access? O- Log-out **Refine This Search:** You may refine your search by editing the current search expression or enteri Tables of Contents new one in the text box. ()- Journals extract* <and> (digital <near> document) <and> (firs Search. & Magazines ☐ Check to search within this result set ()- Conference Proceedings **Results Key:** — Standards JNL = Journal or Magazine CNF = Conference STD = Standard Search O- By Author 1 Automatic document metadata extraction using support vector mac O- Basic Hui Han; Giles, C.L.; Manavoglu, E.; Hongyuan Zha; Zhenyue Zhang; Fox, E.A Digital Libraries, 2003. Proceedings. 2003 Joint Conference on , 27-31 May 20 — Advanced Pages:37 - 48 Addition Services [PDF Full-Text (379 KB)] [Abstract] **IEEE CNF** ()- Join IEEE Establish IEEE

IEEE Enterprise File Cabinet

Print Format

Or Access the

Web Account

O- Access the IEEE Member Digital Library

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account |

New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online

Publications | Help | FAQ| Terms | Back to Top

Copyright © 2004 IEEE - All rights reserved





Digital Library

IEEE Enterprise

File Cabinet

Print Format

O- Access the

Welcome



			to East	United States Patent and Trademark Office
Help	FAQ	Terms	IEEE Peer Review	Quick Links * Se
0	- Home - What I Acc	Can ess?	Your sear A maximu	ch matched 3 of 1071730 documents. um of 500 results are displayed, 15 to a page, sorted by Relevance ing order.
\circ	- Log-c	ut	Refine T	his Search:
20000000000	es of Do			refine your search by editing the current search expression or enter in the text box.
\circ	Jouri & Ma	ials gazines	((extract* <	<or> retriev*) <near> feature) <paragraph> Search</paragraph></near></or>
0	- Conf	20.		to search within this result set
0	- Stani		Results I JNL = Jou	Key: urnal or Magazine CNF = Conference STD = Standard
Sear	ch			
Ō	- By Ai - Basic - Adva	3	labeling Ontrup, J.	H term based distance measure for document retrieval and assistance .; Nattkemper, T.W.; Gerstung, O.; Ritter, H.;
	- Join		Internatio	ng in Medicine and Biology Society, 2003. Proceedings of the 25th A onal Conference of the IEEE , Volume: 2 , 17-21 Sept. 2003 03 - 1306 Vol.2
0		Jish IEE Accoun	" I IAUSUIACE	PDF Full-Text (389 KB)] IEEE CNF
0		ss the Mombe		parison of SOM based document categorization systems

Luo, X.; Zincir-Heywood, A.N.;

Neural Networks, 2003. Proceedings of the International Joint Conference on , Volume: 3 , 20-24 July 2003

Pages: 1786 - 1791 vol.3

[PDF Full-Text (465 KB)] [Abstract] **IEEE CNF**

3 Word shape recognition for image-based document retrieval

Weihua Huang; Chew Lim Tan; Sam Yuan Sung; Yi Xu;

Image Processing, 2001. Proceedings. 2001 International Conference on , Vol 1,7-10 Oct. 2001

Pages:1114 - 1117 vol.1

[Abstract] [PDF Full-Text (296 KB)] **IEEE CNF**

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ | Terms | Back to Top

Copyright © 2004 IEEE - All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership	Publications/Services	Standards	Conferences	Careers/Jobs
JEE	Z Xplore		Jnited States Pa	Welcome tent and Traden

(dine

Welcome **United States Patent and Trademark Office**



7	Help	FAQ	Tern
40	Nelec	me to	122
45	\bigcirc	- Home)
la	Ō	- What	Can
		IAcc	ess?

O- Log-out

Tables of Contents

()- Journals

()- Conference Proceedings

C) Standards

& Magazines

Quick Links ns IEEE Peer Review

Your search matched 3 of 1071730 documents.

A maximum of 500 results are displayed, 15 to a page, sorted by Relevance Descending order.

Refine This Search:

You may refine your search by editing the current search expression or enteri new one in the text box.

extract* <and> (digital <near> document) <and> (vec Search

Check to search within this result set

Results Key:

JNL = Journal or Magazine CNF = Conference STD = Standard

Search

O- By Author

O- Basic

()- Advanced

() Join IEEE

· Establish IEEE Web Account

O- Access the IEEE Member Digital Library

()- Access the IEEE Enterprise File Cabinet

🖴 Print Format

1 An elastic matching approach applied to digit recognition

Bertille, J.-M.;

Document Analysis and Recognition, 1993., Proceedings of the Second International Conference on , 20-22 Oct. 1993 Pages:82 - 83

[PDF Full-Text (320 KB)] **IEEE CNF** [Abstract]

2 Encoding of modified X-Y trees for document classification

Cesarini, F.; Lastri, M.; Marinai, S.; Soda, G.;

Document Analysis and Recognition, 2001. Proceedings. Sixth International Conference on , 10-13 Sept. 2001

Pages:1131 - 1136

[PDF Full-Text (544 KB)] **IEEE CNF** [Abstract]

3 Proceedings of 2002 International Conference on Machine Learning Cybernetics (Cat.No.02EX583)

Machine Learning and Cybernetics, 2002. Proceedings. 2002 International Conference on , Volume: 2 , 4-5 Nov. 2002

[PDF Full-Text (1409 KB)] [Abstract] **IEEE CNF**

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ | Terms | Back to Top

Copyright © 2004 IEEE - All rights reserved